

20060401.ba v03_n904.bam.20060401

>From ???@??? Fri Mar 31 18:00:57 2006 -0500
Date: Sat, 1 Apr 2006 00:00:02 GMT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3904
Message-Id: <20060401000004.2CFBB1B82BF@srvr1.theporch.com>

BOATANCHORS Digest 3904

Topics covered in this issue include:

- 1) Re: Future parts availability
by "David Stinson" <arc5@ix.netcom.com>
- 2) Re: Future parts availability
by "Arden Allen" <gumbear@pacbell.net>
- 3) chip resistors
by "Arden Allen" <gumbear@pacbell.net>
- 4) RE: Future parts availability
by "John Page" <k4kwm@hotmail.com>
- 5) Re: Future parts availability
by Garey Barrell <k4oah@mindspring.com>
- 6) Future parts availability-more
by wsno19@mindspring.com
- 7) Low B+, was Future parts availability
by Randy Zelick <zelickr@pdx.edu>
- 8) Test message
by Scott Robinson <spr@earthlink.net>
- 9) BC-348-P for sale, Pickup in Berkeley.
by "John Gibson" <gibsonj@mindspring.com>
- 10) hollow state on low volts
by "John Gillespie" <jgillespie@porchlight.ca>
- 11) A novel use for Morse code
by Scott Robinson <spr@earthlink.net>
- 12) AN/FRD-10 Antenna (Wullenweber)
by Jerry Proc <jerry7proc@yahoo.com>
- 13) Re: Future parts availability
by John Kolb <jlkolb@jlkolb.cts.com>

Message-ID: <007101c653e2\$51af6000\$c2076047@262ul>
From: "David Stinson" <arc5@ix.netcom.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Future parts availability
Date: Thu, 30 Mar 2006 04:11:30 -0600
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Arden Allen" <gumbear@pacbell.net>
Subject: Re: Future parts availability

> > Resistors with wires on them are going to get scarce eventually. ...
>
> I expect the hottest topic then on BA will be how to "roll your own" out
of
> chip resistors. Stay tuned..... (-:

I think people at that time might consider my suggestion that many of our sets can be run quite well on deeply reduced B+, eliminating the need for most recapping and parts changing and preserving the original parts.
I'm working on a receiver that used 250 VDC B+ and 12 VDC filaments.
I tucked a little 12-volt audio amp from an old set of computer speakers (costs \$4 from a surplus outlet) inside and the radio is working well on 50 volts.
Next experiment is to see just how low I can take the B+ and still get acceptable sensitivity and reliable BFO operation.
I've heard all the arguments about "cathode poisoning" or whatever it's called, and I don't think it's a real concern in BA receivers that are run, at most, a few hours a week.
Even if it does happen, it will take a very long time at that duty cycle and changing receiver tubes is easier than replacing tired, 60-year-old caps that were blown up by running them at high voltage levels.
Biggest difference I see, other than the cheap little audio amp, is that the set runs cooler and stabilizes faster.
This is the only way I would consider running my rare sets.

Getting a BA transmitter to work on reduced B+...
that's going to be an interesting challenge ;-).

73 Dave S.

Message-ID: <003901c653ea\$54be2d00\$c8e47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Future parts availability
Date: Thu, 30 Mar 2006 03:07:10 -0800
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> I've still got 100's of resistors left I bought about 30 years
> ago. The plating on the leads is badly oxidized and the leads
> have to be scraped before being soldered to. Sitting there
> scraping old resistor leads takes all the fun out of building.
> For long term component storage, an oxygen free environment
> might be desirable.

A few swipes with a bit of a Scotchbrite pad make's 'em solder like new.
The coating of oxidized lead acts to protect the leads from further
oxidation. Lot easier than scraping or sanding. Don't lick your fingers
after though.... :-)

Arden Allen
KB6NAX

Message-ID: <005b01c653ec\$4055f440\$c8e47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: chip resistors
Date: Thu, 30 Mar 2006 03:22:32 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I rue the day when leaded resistors parish from the planet. So I'll get
ahead of the coming eclipse of BA fun by engineering some homemade resistor
processes. Just as long as the eyesight holds up, of course.

Line up the chosen chips on the sticky side of a piece of sticky tape.
Series for voltage rating and parallel for wattage rating. Uprate the
voltage ratings about four times. Using a tiny tip solder iron and 0.025 or
smaller solder, solder the chips together. Soak the finished resistor in
acetone to remove the flux and tape stickum. Mold the new resistor inside
of a small soda straw or other suitable tubular material. Paint the
finished part with color bands to suit. Check with ohmmeter before
installing in BA. Are we having fun yet?

Arden Allen
KB6NAX

Message-ID: <BAY103-F28E5ED7446D07E34A255D5E1D10@phx.gbl>

From: "John Page" <k4kwm@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Future parts availability
Date: Thu, 30 Mar 2006 12:41:47 +0000
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Well, now they are taking the oxygen out of your copper wire. (audiophools).
(:-)

John Page K4KWM
Hollow State since 1953
(ex W8PKU, N8BLB, NA80)

>
>When they find out that nitrogen (meaning nitrated explosives)
>is bad, will they demand air that doesn't contain nitrogen?
>

Message-ID: <442BE49E.4090107@mindspring.com>
Date: Thu, 30 Mar 2006 09:01:02 -0500
From: Garey Barrell <k4oah@mindspring.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Future parts availability
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

We used a tool at NASA 40 years ago that was a piece of spring metal formed into a "U" shape. At the open end there was a "pad" on the inside of each "leg" of either "Pink Pearl" eraser or a synthetic material similar to today's Scotchbrite. Each resistor or capacitor lead was squeezed between the pads and then withdrawn. A couple of passes on each lead left it clean and bright, ready to solder. These were commercial products at the time.

73, Garey - K4OAH
Atlanta

Drake B & C-Line Service CDs
<<http://www.k4oah.com>>

Arden Allen wrote:

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> oxidation. Lot easier than scraping or sanding. Don't lick your fingers
> after though.... :-)
>
> Arden Allen
> KB6NAX
>
>
>

Message-ID: <6345656.1143732633493.JavaMail.root@mswamui-
valley.atl.sa.earthlink.net>

Date: Thu, 30 Mar 2006 10:30:33 -0500 (GMT-05:00)

From: wsno19@mindspring.com

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Future parts availability-more

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

For those who are concerned about availability of parts....hark ye now. Today,
other than tubes, SM Resistors, some caps etc....at least 50% of what you dream
should be available ..isn't

A few suggestions are: (if you are that concerned)

1. Go to your local Tech Inst and tell them you are "electronic environment
friendly". Cart away all their old stuff like scopes, power supplies
etc.....salvage for parts.

2. Use this same approach at your community level.....works for me.

3. Try all the NG Armories in your locale. I have reclaimed some wonderful
installation kits that were NIB and was able to use the connectors, multi-wire
cable, (try buying some from BELDEN these days!) insulators, antenna bases
etc....they were happy to see the stuff go. Tell them you are a Radio Ham etc..o'h
yea....although it was KESTER..I got half dozen rolls of incomplete 1lb spools of
solder of useable stuff.

Lots of ways....TG

Date: Thu, 30 Mar 2006 08:13:29 -0800 (Pacific Standard Time)
From: Randy Zelick <zelickr@pdx.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Low B+, was Future parts availability
Message-ID: <Pine.WNT.4.64.0603300803500.284@BIO-SB2-329-RZN.PSU.DS.PDX.EDU>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

Hello Dave S, and others,

Don't forget that the Collins R-392 receiver uses 28 volts on the tube plates. It works OK, but they use a funky audio PA tube which was upgraded to a solid state plug-in module, to get enough current to drive a speaker (even a 600 ohm speaker). Other than the audio PA tube the R-392 uses a mixture of conventional 6V heater tubes and some 26 volt heater tubes.

So the bottom line is that you can go at least this low for B+.

On the other hand, experiments done by myself and others indicate that, at least for the R-392, higher plate voltage substantially improves dynamic range and unwanted mixing products. I built a small supply to increase the R-392 plate supply to around 50 volts. This is not too large to stress the set's components but does improve performance.

Cheers,

=Randy=

R. Zelick email: zelickr@pdx.edu
Department of Biology voice: 503-725-3086
Portland State University fax: 503-725-3888

mailing:
P.O. Box 751
Portland, OR 97207

shipping:
1719 SW 10th Ave, Room 246
Portland, OR 97201

Mime-Version: 1.0
Message-Id: <p06230907c051c9363c73@[192.168.1.2]>
Date: Thu, 30 Mar 2006 09:44:03 -0800
To: Old Tube Radios <boatanchors@theporch.com>
From: Scott Robinson <spr@earthlink.net>
Subject: Test message
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

I'm getting much of what I send bounced. Let' see if this gets through.

/scott

Date: Thu, 30 Mar 2006 10:40:46 -0800
Subject: BC-348-P for sale, Pickup in Berkeley.
From: "John Gibson" <gibsonj@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Message-Id: <E1FP24J-0002xS-00@pop04.mail.atl.earthlink.net>

I have a cosmetically very good BC-348-P for sale. It has the dynamotor and shock mount. Has been recapped and works well. Buyer must pick up in Berkeley. Price \$180.

Also a like new Hallicrafters S53 (the good model with 2 mcs IF). \$75. Pick up required.

jpeg photos available of both.

John Gibson, in Berkeley, Calif.

Message-ID: <006601c6542d\$1f188540\$6831bb40@MEUser>
From: "John Gillespie" <jgillespie@porchlight.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: hollow state on low volts
Date: Thu, 30 Mar 2006 14:04:38 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Randy Zelick:

Stated that the R392 runs on 28 volts, so tubes can be run on this low a B+ voltage.

Car radios from approximately 1957 to 1962 the transistion years used a combination of tubes and solid state output tranistors. They were sensitive and had good selectivity on 12 volts.

Many of the known tubes, 12BA6, 12BE6 and 12AV6 were dropped, and replaced with 12BL6, 12AD6 12AE6 and 12AF6 tubes.

These tubes are not in as great a supply as the previous BA, BE & AV tubes, but if someone felt like rewiring a set that used 6BA6, 6BE6 and 6AV6's try converting to these other tubes with a 12 volt AC filament.

Mime-Version: 1.0
Message-Id: <p0623090bc051ec03648d@[192.168.1.2]>
Date: Thu, 30 Mar 2006 12:11:58 -0800
To: Old Tube Radios <boatanchors@theporch.com>
From: Scott Robinson <spr@earthlink.net>
Subject: A novel use for Morse code
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

>Folks,
>

Just when you think you've heard it all...a seriously computer oriented friend at work recently acquired an Apple iPod 2G nano. For those of you not familiar with these things, it's a flash memory based packet music player, and this particular one has 2 Gigabytes of flash memory. It also has some pretty smart processors, is about 1 inch by 3 inches by 1/4 inch thick, and has a screen about 3/4 inch square.

>Of course he now has a memory partition running Linux in it, as well
>a a large number of computer games. But wait, there's more...:
>

>The nano has a five button front panel, no keyboard. However, you
>can write C code in it by using Morse code, plus of course extra
>codes for special characters such as pipe and newline.

See, Morse code isn't obsolete after all!

>/scott

Message-ID: <20060330235809.90573.qmail@web34211.mail.mud.yahoo.com>
Date: Thu, 30 Mar 2006 15:58:09 -0800 (PST)
From: Jerry Proc <jerry7proc@yahoo.com>
Subject: AN/FRD-10 Antenna (Wullenweber)
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Hello Everyone,

I am researching another SIGINT station, namely CFB

Masset, British Columbia. The principal feature at the station is the AN/FRD-10 Circularly Disposed Antenna Array (CDAA), commonly called a Wullenweber.

CDAA technology was developed by the German navy during the early years of World War II. The technical team leaders were Dr. Pietzner, Dr. Schelhorse, and Dr. Wachtleter.

The antenna goes under slang names such as the Dinosaur Cage, Elephant Cage or the Turkey Cage.

In spite of the various web sites out there, I am unable to find out who or what Wullenweber means. Is that a person's name and if so who was he?

--

Regards,
Jerry Proc
E-mail: jerry7proc@yahoo.com

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
<http://mail.yahoo.com>

Message-Id: <6.2.5.6.0.20060330204931.035ff890@jlkolb.cts.com>
Date: Thu, 30 Mar 2006 20:52:50 -0800
To: Old Tube Radios <boatanchors@theporch.com>
From: John Kolb <jlkolb@jlkolb.cts.com>
Subject: Re: Future parts availability
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I've been using a similar commercial tool which uses a section of braided wire on each side of the "U". Occasionally I've used steel wool, which leaves wire slivers all over to cause short circuits. A piece of Scotchbrite sounds like a better idea.

John

At 06:01 AM 3/30/2006, Garey Barrell wrote:
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>formed into a "U" shape. At the open end there was a "pad" on the
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>>Arden Allen
>>KB6NAX
>>
>>
>>
>
>
>
>
>--
>Internal Virus Database is out-of-date.
>Checked by AVG Anti-Virus.
>Version: 7.0.344 / Virus Database: 267.15.3/254 - Release Date: 2/8/2006

End of BOATANCHORS Digest 3904
